

Istio. Before performing the upgrade, it checks that the Istio installation meets the upgrade eligibility criteria. Also, it alerts the user if it detects any changes in the profile default values between Istio versions.

The isticctl upgrade command performs an upgrade of

Canary Upgrade is safer than doing an in-place upgrade and is the recommended upgrade method.

See the isticctlupgrade reference for all the options provided by the isticctl upgrade command.

of Istio.

The upgrade command can also perform a downgrade

istioctl upgrade is for in-place upgrade and

not compatible with installations done with the --revision flag. Upgrades of such installations will fail with an error.

Upgrade prerequisites

Before you begin the upgrade process, check the following prerequisites:

• The installed Istio version is no more than one

minor version less than the upgrade version. For example, 1.6.0 or higher is required before you start the upgrade process to 1.7.x.

• Your Istio installation was installed using istioctl.

Upgrade steps

Traffic disruption may occur during the upgrade process. To minimize the disruption, ensure that at least two replicas of istiod are

PodDisruptionBudgets are configured with a minimum availability of 1.

running. Also, ensure that

to the cluster to upgrade:

new version of isticctl which can be found in the bin/ subdirectory of the downloaded package.

The commands in this section should be run using the

1. Download the new Istio release and change directory

to the new release directory. 2. Ensure that your Kubernetes configuration points

```
3. Ensure that the upgrade is compatible with your environment.
```

```
$ istioctl x precheck
  No issues found when checking the cluster. Istio is safe
to install or upgrade!
To get started, check out https://istio.io/latest/docs/setu
p/getting-started/
```

4. Begin the upgrade by running this command:

```
$ istioctl upgrade
```

\$ kubectl config view



If you installed Istio using the -f flag, for example istioctl install -f <IstioOperator-custom-resource-definition-

file>, then you must provide the same -f

If you installed Istio using --set flags, ensure that you pass the same --set flags to upgrade,

flag value to the istioctl upgrade

command.

If you installed Istio using --set flags, ensure that you pass the same --set flags to upgrade, otherwise the customizations done with --set will be reverted. For production use, the use of a

If you omit the -f flag, Istio upgrades using the default profile.

After performing several checks, isticctl will ask you to confirm whether to proceed.

configuration file instead of --set is

any pods with Istio sidecars:

recommended.

5. istioctl will in-place upgrade the Istio control plane and gateways to the new version and indicate the completion status.6. After istioctl completes the upgrade, you must manually update the Istio data plane by restarting

Downgrade prerequisites

Before you begin the downgrade process, check the following prerequisites:

• Your Istio installation was installed using istioctl.

installed Istio version. For example, you can

• The Istio version you intend to downgrade to is no more than one minor version less than the

Downgrade must be done using the istioct1
binary version that corresponds to the Istio
version that you intend to downgrade to. For
example, if you are downgrading from Istio 1.7 to

downgrade to no lower than 1.6.0 from Istio 1.7.x.

Steps to downgrade to a lower Istio version

1.6.5, use istinct version 1.6.5.

version of Istio. The steps are identical to the upgrade process described in the previous section, only using the isticctl binary corresponding to the lower version (e.g., 1.6.5). When completed, Istio will be restored to the previously installed version. Alternatively, istioctl install can be used to install an older version of the Istio control plane, but is not recommended because it does not perform any checks. For example, default values applied to the cluster for a configuration profile may change without warning.

You can use istictl upgrade to downgrade to a lower